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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/087,318	03/01/2002	Gary J. Hydock	17851.0 (Hydock)	2105	
1342	7590 12/03/2003		EXAMINER		
	LYTLE LLP	BAXTER, GWENDOLYN WRENN			
INTELLECT 3400 HSBC	'UAL PROPERTY GRO CENTER	ART UNIT	PAPER NUMBER		
	NY 14203-3509	3632			
			DATE MAILED: 12/02/200	2	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicat	ion No.	Applicant(s)				
• Office Action Summary		10/087,3	318	HYDOCK, GARY J.				
		Examine	:r	Art Unit				
			yn Baxter	3632				
Period fo	The MAILING DATE of this commun or Reply	ication appears on th	e cover sheet with the	correspondence addres	S			
THE I - External form of the control	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (3 period for reply is specified above, the maximum stree to reply within the set or extended period for reply reply received by the Office later than three months a department of the provided in the provided period for reply reply received by the Office later than three months a department of the provided in the	ICATION. of 37 CFR 1.136(a). In no enunication. io) days, a reply within the statutory period will apply and very will, by statute, cause the apply.	vent, however, may a reply be to atutory minimum of thirty (30) da will expire SIX (6) MONTHS fror plication to become ABANDON	imely filed ys will be considered timely. n the mailing date of this community ED (35 U.S.C. § 133).	nication.			
1)🖂	Responsive to communication(s) file	ed on <u>17 September</u>	<u>2003</u> .					
2a)⊠	This action is FINAL . 2	b)∐ This action is r	on-final.					
3) 🗌								
Dispositi	ion of Claims							
4) 🖂	☑ Claim(s) <u>1-44</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	Claim(s) <u>38-44</u> is/are allowed.							
6)⊠	Claim(s) <u>1-3,6-11,13-16,20-23,27,29-31 and 33</u> is/are rejected.							
7)🖂	Claim(s) <u>4,5,12,17-19,24-26,28,32 and 34-37</u> is/are objected to.							
8)□	Claim(s) are subject to restrict	ction and/or election	requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	e Examiner.						
10)[The drawing(s) filed on is/are:	a)□ accepted or b	\prod objected to by the	Examiner.				
	Applicant may not request that any object	= : :	•	• •				
	Replacement drawing sheet(s) including	•		-	• •			
11)	The oath or declaration is objected to	by the Examiner. N	ote the attached Office	e Action or form PTO-1:	52.			
Priority u	ınder 35 U.S.C. §§ 119 and 120							
a)[13)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation acknowledgment is made of a claim force a specific reference was included a CFR 1.78. The translation of the foreign large acknowledgment is made of a claim force a claim for the foreign large acknowledgment is made of	documents have been documents have been of the priority documental Bureau (PCT Runn for a list of the certor domestic priority und in the first sentence anguage provisional and or domestic priority under the priority of th	en received. en received in Applicatents have been received in Application 17.2(a)). tified copies not receive inder 35 U.S.C. § 1190 e of the specification of pplication has been resunder 35 U.S.C. §§ 1200 inder 35 U.S.C. §§ 1200 inder 35 U.S.C. §§ 1200 in result in the specification inder 35 U.S.C. §§ 1200 in result in the specification in t	tion No red in this National Stag red. (e) (to a provisional app or in an Application Data ceived. D and/or 121 since a sp	lication) a Sheet. ecific			
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2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449) Pa			y (PTO-413) Paper No(s) Patent Application (PTO-152)				

Art Unit: 3632

This is the second office action for serial number 10/087,318, Modular Radiant Heat Panel System, filed on March 1, 2002.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 6-9 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,635,710 to Shelley, hereinafter Shelley. The present invention reads on Shelley as follows: Shelley discloses radiant heat transfer panel comprising a formed tray (26). The tray defines a thermal volume (30) and a conduit channel (14). The volume contains the thermal mass. The channel, volume and thermal mass configured and arranged to permit heat transfer between the conduit and the thermal mass (col. 3, lines 41+). The conduit channel is a U-shaped trough. The conduit channel is cylindrical. The conduit channel comprises a linear section. The conduit channel comprises an arcuate section. See figure 2 to see the various orientations of the conduit channel.

Claims 1, 6, 13, 14-16, 20, 22, 23, 27, 29-31 and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,283,382 B1 to Fitzemeyer, hereinafter Fitzemeyer. The present invention reads on Fitzemeyer as follows: Fitzemeyer discloses radiant heat transfer

Application/Control Number: 10/087,318 Page 3

Art Unit: 3632

panel comprising a formed tray (10). The tray defines a containment space (defined between 14) and a conduit channel (16). The space contains a thermal mass (56). The channel, containment space and thermal mass configured and arranged to permit heat transfer between the conduit and the thermal mass in a limited manner (col. 4, line 59+). The conduit channel is a U-shaped trough. The space is open on a first side of the tray and the conduit channel is open on a second side of the tray opposite the first side. The fluid that flows in the conduit is water (col. 3, lines 62+). An overlayer (92) has a finishing surface and includes an under layer (90). The panel is attached to the under layer by mechanical bond or mechanical fastener (92). The panel has an outer surface and the outer surface defines a standing wall.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shelley in view of U.S. Patent No. 6,283,382 B1 to Fitzemeyer. Shelley teaches the limitations of the base claim, excluding the conduit channel is plastic tubing.

Fitzemeyer teaches a panel comprising plastic tubing that is a heat conductive flexible plastic. It would have been obvious to one having ordinary skill in the art at the time the

Art Unit: 3632

invention was made to have modified the material of the conduit of Shelley to have incorporated the plastic tubing as taught by Fitzemeyer, as mere substitution of functional equivalent part, since this tubing allows heat to be transferred.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shelley in view of U.S. Patent No. 6,021,646 to Burley. Shelley teaches the limitations of the base claim, excluding the tray being formed from one of the following compositions: polyvinyl chloride, polyethylene, polybutylene and thermoplastic material.

Burley teaches a thermal radiant panel formed of polyethylene or polypropylene. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the material of the tray as taught by Shelley to have incorporated the prescribed thermoplastic material as taught by Burley for facilitating transportation and installation of the panel.

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shelley in view of U.S. Patent No. 2,726,593 to Lahti. Shelley teaches the limitations of the base claim, excluding the thermal mass comprising a composition from a group consisting of cement, mortar, ceramic, concrete or stone.

Lahti teaches a radiant panel comprising a thermal mass is a gravel filler having a concrete surface or textured outer surface (col. 4, line 28+). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the thermal mass as

Page 4

Art Unit: 3632

taught by Shelley to have incorporated filler as taught by Lahti, as mere substitution of functional equivalent parts for the purpose of controlling the heating in the heat radiating member.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fitzemeyer in view of Cohen. Fitzemeyer teaches the limitations of the base claim, excluding the finishing surface being selected from a group consisting of wood, carpet, tile and laminate.

Cohen teaches the surface is tile. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the system of Fitzemeyer to have incorporated the tile as taught by Cohen for the purpose of providing an attractive flooring or covering for the radiant heat system.

Allowable Subject Matter

Claims 4, 5, 12, 17, 18, 19, 24-26, 28, 32 and 34-37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 38-44 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fails to teach the following: a fixture tower, side gusset, and the attachment spacer being wood. Additionally, the art fails to teach the step of providing an attachment space and positioning the attachment spacer adjacent at least one of the panels.

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Application/Control Number: 10/087,318

Art Unit: 3632

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Response to Arguments

Applicant's arguments filed September 17, 2003 have been fully considered but they are

Applicant argues that Shelley fails to anticipate the present invention. In fact, Shelley does not persuasive. not define a conduit channel in combination with a space containing filler material. Independent claim 1 reads "said tray defining a containment space and a conduit channel. The tray (26) clear has a space for holding a thermal material 30. Additionally, the tray has another structural element a conduit channel for holding the conduit. Therefore, meeting the recited limitations of this claim.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

A shortened statutory period for reply to this final action is set to expire THREE policy as set forth in 37 CFR 1.136(a). MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

Art Unit: 3632

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gwendolyn Baxter whose telephone number is (703) 308-0702. The examiner can normally be reached Monday-Friday from 8:30 A.M. to 5:00 P.M. Eastern Time Zone.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113. The fax phone number for this Group is (703) 305-3597.

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November 29, 2003